Date: Fri, 27 May 94 21:09:06 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #584
To: Info-Hams

Info-Hams Digest Fri, 27 May 94 Volume 94 : Issue 584

Today's Topics:

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

Date: 27 May 94 20:45:54 GMT
From: dog.ee.lbl.gov!agate!boulder!csn!joelf@ucbvax.berkeley.edu
Subject: "The Rhythm of the Code" tape
To: info-hams@ucsd.edu

Peter E. Goodmann (pegood@ss3.magec.com) wrote:

: Does anyone know if "The Rhythm of the Code" from Kawa Records (advertised in
: QST classifieds) is any good? Thanks.

: Pete Goodmann, NI9N

I ordered a copy for my wife (N0TOB) who is still a nocode. She decided she liked it so much that she bought 3 more copies, one went to the club school... Her complaint with the normal code tapes is that you do not learn the characters in alphabetic order, this tape does teach them that way. She still has not upgraded yet but knows most of the numbers and characters while only listening in the car on the 2+ miles to work.

73 -- KG0IL
Joel

Date: 27 May 1994 12:04:40 -0700
From: btree.brooktree.com!usenet@network.ucsd.edu
Subject: Ham Radio few problem
To: info-hams@ucsd.edu

In article <rogjdCqAB3L.9r5@netcom.com>,
Roger Buffington <rogjd@netcom.com> wrote:

>A fair interpretation of my remarks. Frankly, I've been trying to find
>the time to get up a petition among Southern California hams to the ARRL
>to challenge whether or not the present coordination of the 440 band is in
>the best interests of the hobby. I've almost never spoken with an amateur
>here in the area who is happy with 440 as it stands. A start would be to
>challenge the ARRL sanctioning of the present coordination group.
>It'll be a while before I get much done, as I start Law School in a few
>months.

Good! Several of us in San Diego are also writing letters, petitioning, jamming, etc. to shut down closed repeaters in the amateur service. We should probably get more organized.

I said it before, but the FCC is willing to consider a "close repeater ban". There there are several commissioners (I know one personally) that are sympathetic to our cause. They say the request (RFR) must come from the amateur community or politically they can not act. I have not been active on lobbying the ARRL... attacking the coordinating bodies might be a new angle on this...

PS. My wife is a communications lawyer... What school are you going to?

Roger Bly
--

Roger Bly
roger@brooktree.com

Date: 27 May 1994 11:47:58 GMT
From: yale.edu!noc.near.net!chaos.dac.neu.edu!chaos.dac!wy1z@yale.arpa
Subject: Oakland ham area Index files
To: info-hams@ucsd.edu

I have created a new type of Index file for the oak.oakland.edu:/pub/hamradio
FTP area.

The new index file is named 0-Index2.txt, and is in the format of:

/directory_path/name_of_file, file description

which is great if you want to perform a grep of a particular program.
The result will be an instant directory path to retrieve the file from.

The other index file isn't going anywhere. It's format is still:

/directory_path:
names of files   Brief description of file

The final index file, which is more confusing, but will continue to exist,
is the vanilla recursive subdirectory listing, ls-lR.

Scott Ehrlich

--

| Scott Ehrlich   Amateur Radio: wy1z   AMPRnet: wy1z@wa1phy.ampr.org |
| Internet: wy1z@neu.edu   BITnet: wy1z@NUHUB   AX.25: wy1z@wa1phy.ma.usa.na |
| Maintainer of the Boston Amateur Radio Club hamradio FTP area on |
| oak.oakland.edu - /pub/hamradio |

Date: 27 May 94 15:33:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS$147.2L.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT $ORBS-147.N
2Line Orbital Elements 147.AMSAT

HR AMSAT ORBITAL ELEMENTS FOR AMATEUR SATELLITES IN NASA FORMAT
FROM WA5QGD FORT WORTH,TX May 27, 1994
BID: $ORBS-147.N

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:
1 AAAAAU 00 0 0 BBBBB.BBBBBBBB .CCCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJJKKKKKZ
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

TO ALL RADIO AMATEURS BT

AO-10
1 14129U 83058B   94142.44873866 -.00000055 00000-0 10000-3 0 2850
2 14129 27.1282 326.3729 6021350 180.2426 179.1822 2.05879809 82258
UO-11
1 14781U 84021B   94143.03061883 .00000276 00000-0 54717-4 0 6952
2 14781 97.7875 158.9341 0012137 356.6640   3.4484 14.69211582546615
RS-10/11
1 18129U 87054A   94143.06202902 .00000033 00000-0 19805-4 0 9046
2 18129 82.9244 347.4186 0013145 90.9237 269.3425 13.72337109346469
AO-13
1 19216U 88051B   94144.40940288 -.00000461 00000-0 10000-4 0 9197
2 19216 57.8423 251.0411 7206867 342.2489   1.9918 2.09725094 45513
FO-20
1 20480U 90013C   94144.43473962 -.00000035 00000-0 -10249-4 0 6927
2 20480 99.0329 300.7480 0541340 33.2966 330.0992 12.83225622201086
AO-21
1 21087U 91006A   94143.50227818 .00000094 00000-0 82657-4 0 4730
2 21087 82.9413 160.9779 0035976 150.2606 210.0599 13.74539547166193
RS-12/13
1 21089U 91007A   94144.13470258 .00000037 00000-0 23586-4 0 6950
2 21089 82.9224 29.2888 0029039 172.4887 187.6707 13.74040914165344
ARSENE
1 22654U 93031B   94146.03306133 -.00000126 00000-0 00000 0 0 2608
2 22654   1.8166 100.7777 2920956 181.5514 176.6819 1.42202574   881
UO-14
1 20437U 90005B   94144.22276841 .00000025 00000-0 26693-4 0 9979
2 20437 98.5880 229.3217 0010181 263.8728 96.1295 14.29843487226168
AO-16
1 20439U 90005D   94144.20928715 .00000020 00000-0 24847-4 0 7964
2 20439 98.5965 230.5154 0010403 264.3951 95.6036 14.29897339226172
DO-17
1 20440U 90005E   94144.16596132 .00000045 00000-0 34314-4 0 7962
2 20440 98.5981 230.7887 0010560 263.4989 96.4992 14.30037037226186
WO-18
1 20441U 90005F   94144.21082933 .00000033 00000-0 29788-4 0 7986

```
2 20441  98.5971 230.8353 0011035 263.3967  96.5956 14.30011373226195
LO-19
1 20442U 90005G   94144.19061234  .00000040  00000-0  32455-4 0  7955
2 20442  98.5977 231.0663 0011451 263.1040  96.8842 14.30107216226202
UO-22
1 21575U 91050B   94144.18192998  .00000065  00000-0  36633-4 0  4995
2 21575  98.4364 219.1638 0008301   8.5029 351.6298 14.36915556149634
KO-23
1 22077U 92052B   94144.52572252 -.00000037  00000-0  10000-3 0  3942
2 22077  66.0839 329.5255 0013803 293.2557  66.7013 12.86286047 83740
AO-27
1 22825U 93061C   94144.19661163  .00000028  00000-0  29274-4 0  2938
2 22825  98.6515 220.2413 0008078 284.8036  75.2246 14.27623773 34266
IO-26
1 22826U 93061D   94144.24944208  .00000023  00000-0  27369-4 0  2937
2 22826  98.6505 220.3266 0008712 287.1330  72.8895 14.27727519 34278
KO-25
1 22830U 93061H   94144.19534348  .00000045  00000-0  35671-4 0  2980
2 22830  98.5540 217.7814 0010495 247.7152 112.2919 14.28053943 34275
NOAA-9
1 15427U 84123A   94145.66353036  .00000089  00000-0  71518-4 0  8185
2 15427  99.0554 195.8888 0014172 285.4305  74.5298 14.13617128487167
NOAA-10
1 16969U 86073A   94145.47609782  .00000081  00000-0  52633-4 0  7171
2 16969  98.5093 155.1720 0014363  38.5155 321.7045 14.24886079399374
MET-2/17
1 18820U 88005A   94145.83885770  .00000051  00000-0  32213-4 0  2948
2 18820  82.5389 286.3592 0015118 243.9064 116.0542 13.84715671319268
MET-3/2
1 19336U 88064A   94143.01618494  .00000051  00000-0  10000-3 0  2906
2 19336  82.5416 341.5014 0016793 330.5698  29.4471 13.16967217279949
NOAA-11
1 19531U 88089A   94145.48219929  .00000124  00000-0  91672-4 0  6385
2 19531  99.1709 133.8378 0011171 193.0002 167.0881 14.12988268292019
MET-2/18
1 19851U 89018A   94143.07013368  .00000048  00000-0  30037-4 0  2913
2 19851  82.5194 163.9460 0013346 304.0434  55.9451 13.84365026264211
MET-3/3
1 20305U 89086A   94145.83435935  .00000044  00000-0  10000-3 0   560
2 20305  82.5502 285.4311 0006155   2.9778 357.1381 13.04403482219984
MET-2/19
1 20670U 90057A   94144.23310848  .00000024  00000-0  79036-5 0  7968
2 20670  82.5464 227.4882 0014940 209.3110 150.7229 13.84188048197304
FY-1/2
1 20788U 90081A   94145.55435241  .00000420  00000-0  30638-3 0  9770
2 20788  98.8363 166.4070 0016564  71.8115 288.4852 14.01342516190535
MET-2/20
1 20826U 90086A   94144.51734142  .00000055  00000-0  36682-4 0  8044
```

```
2 20826  82.5263 164.8146 0014540 108.8861 251.3875 13.83581698184480
MET-3/4
1 21232U 91030A   94144.15367579  .00000050  00000-0  10000-3 0  7029
2 21232  82.5428 186.5830 0011566 247.0250 112.9658 13.16462510148195
NOAA-12
1 21263U 91032A   94145.54361794  .00000168  00000-0  94974-4 0   411
2 21263  98.6178 173.8178 0012251 306.5962  53.4089 14.22408529157315
MET-3/5
1 21655U 91056A   94144.04747976  .00000051  00000-0  10000-3 0  7118
2 21655  82.5512 133.7949 0011535 261.0292  98.9519 13.16830410133282
MET-2/21
1 22782U 93055A   94144.27606260  .00000070  00000-0  50433-4 0  3040
2 22782  82.5490 225.3784 0021246 296.1592  63.7370 13.83007284 36787
POSAT
1 22829U 93061G   94144.20009399  .00000042  00000-0  34857-4 0  2862
2 22829  98.6480 220.3002 0009356 270.1364  89.8754 14.28025735 34279
MIR
1 16609U 86017A   94145.46651570  .00005081  00000-0  77965-4 0  6226
2 16609  51.6468 299.9796 0001400 332.0137  28.0779 15.56191452472509
HUBBLE
1 20580U 90037B   94146.19060479  .00000655  00000-0  50142-4 0  4902
2 20580  28.4695  17.2699 0006309 215.0252 144.9918 14.90611648 26105
GRO
1 21225U 91027B   94144.05337500  .00003015  00000-0  65153-4 0  1014
2 21225  28.4615  39.6619 0003265 301.0259  59.0006 15.40837905 53213
UARS
1 21701U 91063B   94145.80037151  .00002233  00000-0  21537-3 0  5276
2 21701  56.9863 248.7751 0005576 100.4698 259.6958 14.96600504147589
/EX

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Date: 27 May 94 15:29:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS$147.MICRO.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT  $ORBS-147.D
Orbital Elements  147.MICROS

HR AMSAT ORBITAL ELEMENTS FOR THE MICROSATS
FROM WA5QGD FORT WORTH,TX May 27, 1994
BID: $ORBS-147.D
TO ALL RADIO AMATEURS BT

Satellite: UO-14
Catalog number: 20437
Epoch time:      94144.22276841
```

```
Element set:     997
Inclination:       98.5880 deg
RA of node:       229.3217 deg
Eccentricity:    0.0010181
Arg of perigee:   263.8728 deg
Mean anomaly:      96.1295 deg
Mean motion:   14.29843487 rev/day
Decay rate:        2.5e-07 rev/day^2
Epoch rev:           22616
Checksum:              328

Satellite: AO-16
Catalog number: 20439
Epoch time:      94144.20928715
Element set:     796
Inclination:       98.5965 deg
RA of node:       230.5154 deg
Eccentricity:    0.0010403
Arg of perigee:   264.3951 deg
Mean anomaly:      95.6036 deg
Mean motion:   14.29897339 rev/day
Decay rate:        2.0e-07 rev/day^2
Epoch rev:           22617
Checksum:              318

Satellite: DO-17
Catalog number: 20440
Epoch time:      94144.16596132
Element set:     796
Inclination:       98.5981 deg
RA of node:       230.7887 deg
Eccentricity:    0.0010560
Arg of perigee:   263.4989 deg
Mean anomaly:      96.4992 deg
Mean motion:   14.30037037 rev/day
Decay rate:        4.5e-07 rev/day^2
Epoch rev:           22618
Checksum:              329

Satellite: WO-18
Catalog number: 20441
Epoch time:      94144.21082933
Element set:     798
Inclination:       98.5971 deg
RA of node:       230.8353 deg
Eccentricity:    0.0011035
Arg of perigee:   263.3967 deg
Mean anomaly:      96.5956 deg
```

```
Mean motion:   14.30011373 rev/day
Decay rate:        3.3e-07 rev/day^2
Epoch rev:           22619
Checksum:              303

Satellite: LO-19
Catalog number: 20442
Epoch time:      94144.19061234
Element set:     795
Inclination:       98.5977 deg
RA of node:       231.0663 deg
Eccentricity:    0.0011451
Arg of perigee:   263.1040 deg
Mean anomaly:      96.8842 deg
Mean motion:   14.30107216 rev/day
Decay rate:        4.0e-07 rev/day^2
Epoch rev:           22620
Checksum:              274

Satellite: UO-22
Catalog number: 21575
Epoch time:      94144.18192998
Element set:     499
Inclination:       98.4364 deg
RA of node:       219.1638 deg
Eccentricity:    0.0008301
Arg of perigee:     8.5029 deg
Mean anomaly:     351.6298 deg
Mean motion:   14.36915556 rev/day
Decay rate:        6.5e-07 rev/day^2
Epoch rev:           14963
Checksum:              339

Satellite: KO-23
Catalog number: 22077
Epoch time:      94144.52572252
Element set:     394
Inclination:       66.0839 deg
RA of node:       329.5255 deg
Eccentricity:    0.0013803
Arg of perigee:   293.2557 deg
Mean anomaly:      66.7013 deg
Mean motion:   12.86286047 rev/day
Decay rate:       -3.7e-07 rev/day^2
Epoch rev:            8374
Checksum:              313

Satellite: AO-27
```

```
Catalog number: 22825
Epoch time:      94144.19661163
Element set:     293
Inclination:       98.6515 deg
RA of node:       220.2413 deg
Eccentricity:    0.0008078
Arg of perigee:   284.8036 deg
Mean anomaly:      75.2246 deg
Mean motion:   14.27623773 rev/day
Decay rate:        2.8e-07 rev/day^2
Epoch rev:            3426
Checksum:              303

Satellite: IO-26
Catalog number: 22826
Epoch time:      94144.24944208
Element set:     293
Inclination:       98.6505 deg
RA of node:       220.3266 deg
Eccentricity:    0.0008712
Arg of perigee:   287.1330 deg
Mean anomaly:      72.8895 deg
Mean motion:   14.27727519 rev/day
Decay rate:        2.3e-07 rev/day^2
Epoch rev:            3427
Checksum:              309

Satellite: KO-25
Catalog number: 22830
Epoch time:      94144.19534348
Element set:     298
Inclination:       98.5540 deg
RA of node:       217.7814 deg
Eccentricity:    0.0010495
Arg of perigee:   247.7152 deg
Mean anomaly:     112.2919 deg
Mean motion:   14.28053943 rev/day
Decay rate:        4.5e-07 rev/day^2
Epoch rev:            3427
Checksum:              308

/EX

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Date: 27 May 94 15:32:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS$147.MISC.AMSAT
```

To: info-hams@ucsd.edu

SB KEPS @ AMSAT $ORBS-147.M
Orbital Elements 147.MISC

HR AMSAT ORBITAL ELEMENTS FOR MANNED AND MISCELLANEOUS SATELLITES
FROM WA5QGD FORT WORTH,TX May 27, 1994
BID: $ORBS-147.M
TO ALL RADIO AMATEURS BT

Satellite: POSAT
Catalog number: 22829
Epoch time: 94144.20009399
Element set: 286
Inclination: 98.6480 deg
RA of node: 220.3002 deg
Eccentricity: 0.0009356
Arg of perigee: 270.1364 deg
Mean anomaly: 89.8754 deg
Mean motion: 14.28025735 rev/day
Decay rate: 4.2e-07 rev/day^2
Epoch rev: 3427
Checksum: 293

Satellite: MIR
Catalog number: 16609
Epoch time: 94145.46651570
Element set: 622
Inclination: 51.6468 deg
RA of node: 299.9796 deg
Eccentricity: 0.0001400
Arg of perigee: 332.0137 deg
Mean anomaly: 28.0779 deg
Mean motion: 15.56191452 rev/day
Decay rate: 5.081e-05 rev/day^2
Epoch rev: 47250
Checksum: 306

Satellite: HUBBLE
Catalog number: 20580
Epoch time: 94146.19060479
Element set: 490
Inclination: 28.4695 deg
RA of node: 17.2699 deg
Eccentricity: 0.0006309
Arg of perigee: 215.0252 deg
Mean anomaly: 144.9918 deg
Mean motion: 14.90611648 rev/day

```
Decay rate:       6.55e-06 rev/day^2
Epoch rev:            2610
Checksum:              301

Satellite: GRO
Catalog number: 21225
Epoch time:      94144.05337500
Element set:     101
Inclination:       28.4615 deg
RA of node:        39.6619 deg
Eccentricity:    0.0003265
Arg of perigee:   301.0259 deg
Mean anomaly:      59.0006 deg
Mean motion:   15.40837905 rev/day
Decay rate:      3.015e-05 rev/day^2
Epoch rev:            5321
Checksum:              245

Satellite: UARS
Catalog number: 21701
Epoch time:      94145.80037151
Element set:     527
Inclination:       56.9863 deg
RA of node:       248.7751 deg
Eccentricity:    0.0005576
Arg of perigee:   100.4698 deg
Mean anomaly:     259.6958 deg
Mean motion:   14.96600504 rev/day
Decay rate:      2.233e-05 rev/day^2
Epoch rev:           14758
Checksum:              317

/EX

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Date: 27 May 94 15:28:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS$147.OSCAR.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT  $ORBS-147.O
Orbital Elements  147.OSCAR

HR AMSAT ORBITAL ELEMENTS FOR OSCAR SATELLITES
FROM WA5QGD FORT WORTH,TX May 27, 1994
BID: $ORBS-147.O
TO ALL RADIO AMATEURS BT
```

```
Satellite: AO-10
Catalog number: 14129
Epoch time:      94142.44873866
Element set:     285
Inclination:       27.1282 deg
RA of node:        326.3729 deg
Eccentricity:    0.6021350
Arg of perigee:    180.2426 deg
Mean anomaly:      179.1822 deg
Mean motion:    2.05879809 rev/day
Decay rate:        -5.5e-07 rev/day^2
Epoch rev:             8225
Checksum:               310

Satellite: UO-11
Catalog number: 14781
Epoch time:      94143.03061883
Element set:     695
Inclination:       97.7875 deg
RA of node:        158.9341 deg
Eccentricity:    0.0012137
Arg of perigee:    356.6640 deg
Mean anomaly:        3.4484 deg
Mean motion:   14.69211582 rev/day
Decay rate:        2.76e-06 rev/day^2
Epoch rev:            54661
Checksum:               320

Satellite: RS-10/11
Catalog number: 18129
Epoch time:      94143.06202902
Element set:     904
Inclination:       82.9244 deg
RA of node:        347.4186 deg
Eccentricity:    0.0013145
Arg of perigee:     90.9237 deg
Mean anomaly:      269.3425 deg
Mean motion:   13.72337109 rev/day
Decay rate:         3.3e-07 rev/day^2
Epoch rev:            34646
Checksum:               292

Satellite: AO-13
Catalog number: 19216
Epoch time:      94144.40940288
Element set:     919
Inclination:       57.8423 deg
```

```
RA of node:       251.0411 deg
Eccentricity:    0.7206867
Arg of perigee:   342.2489 deg
Mean anomaly:       1.9918 deg
Mean motion:    2.09725094 rev/day
Decay rate:      -4.61e-06 rev/day^2
Epoch rev:            4551
Checksum:              313

Satellite: FO-20
Catalog number: 20480
Epoch time:      94144.43473962
Element set:     692
Inclination:       99.0329 deg
RA of node:       300.7480 deg
Eccentricity:    0.0541340
Arg of perigee:    33.2966 deg
Mean anomaly:     330.0992 deg
Mean motion:   12.83225622 rev/day
Decay rate:       -3.5e-07 rev/day^2
Epoch rev:           20108
Checksum:              283

Satellite: AO-21
Catalog number: 21087
Epoch time:      94143.50227818
Element set:     473
Inclination:       82.9413 deg
RA of node:       160.9779 deg
Eccentricity:    0.0035976
Arg of perigee:   150.2606 deg
Mean anomaly:     210.0599 deg
Mean motion:   13.74539547 rev/day
Decay rate:        9.4e-07 rev/day^2
Epoch rev:           16619
Checksum:              326

Satellite: RS-12/13
Catalog number: 21089
Epoch time:      94144.13470258
Element set:     695
Inclination:       82.9224 deg
RA of node:        29.2888 deg
Eccentricity:    0.0029039
Arg of perigee:   172.4887 deg
Mean anomaly:     187.6707 deg
Mean motion:   13.74040914 rev/day
Decay rate:        3.7e-07 rev/day^2
```

```
Epoch rev:           16534
Checksum:              332

Satellite: ARSENE
Catalog number: 22654
Epoch time:      94146.03306133
Element set:     260
Inclination:        1.8166 deg
RA of node:       100.7777 deg
Eccentricity:    0.2920956
Arg of perigee:   181.5514 deg
Mean anomaly:     176.6819 deg
Mean motion:    1.42202574 rev/day
Decay rate:      -1.26e-06 rev/day^2
Epoch rev:              88
Checksum:              279

/EX

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Date: 27 May 94 15:31:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS$147.WEATH.AMSAT
To: info-hams@ucsd.edu

SB KEPS @ AMSAT  $ORBS-147.W
Orbital Elements  147.WEATHER

HR AMSAT ORBITAL ELEMENTS FOR WEATHER SATELLITES
FROM WA5QGD FORT WORTH,TX May 27, 1994
BID: $ORBS-147.W
TO ALL RADIO AMATEURS BT

Satellite: NOAA-9
Catalog number: 15427
Epoch time:      94145.66353036
Element set:     818
Inclination:       99.0554 deg
RA of node:       195.8888 deg
Eccentricity:    0.0014172
Arg of perigee:   285.4305 deg
Mean anomaly:      74.5298 deg
Mean motion:   14.13617128 rev/day
Decay rate:        8.9e-07 rev/day^2
Epoch rev:           48716
Checksum:              344
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Satellite: NOAA-10
Catalog number: 16969
Epoch time:      94145.47609782
Element set:     717
Inclination:       98.5093 deg
RA of node:       155.1720 deg
Eccentricity:    0.0014363
Arg of perigee:    38.5155 deg
Mean anomaly:     321.7045 deg
Mean motion:   14.24886079 rev/day
Decay rate:        8.1e-07 rev/day^2
Epoch rev:           39937
Checksum:              334

Satellite: MET-2/17
Catalog number: 18820
Epoch time:      94145.83885770
Element set:     294
Inclination:       82.5389 deg
RA of node:       286.3592 deg
Eccentricity:    0.0015118
Arg of perigee:   243.9064 deg
Mean anomaly:     116.0542 deg
Mean motion:   13.84715671 rev/day
Decay rate:        5.1e-07 rev/day^2
Epoch rev:           31926
Checksum:              327

Satellite: MET-3/2
Catalog number: 19336
Epoch time:      94143.01618494
Element set:     290
Inclination:       82.5416 deg
RA of node:       341.5014 deg
Eccentricity:    0.0016793
Arg of perigee:   330.5698 deg
Mean anomaly:      29.4471 deg
Mean motion:   13.16967217 rev/day
Decay rate:        5.1e-07 rev/day^2
Epoch rev:           27994
Checksum:              314

Satellite: NOAA-11
Catalog number: 19531
Epoch time:      94145.48219929
Element set:     638
Inclination:       99.1709 deg
RA of node:       133.8378 deg
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Eccentricity:    0.0011171
Arg of perigee:   193.0002 deg
Mean anomaly:     167.0881 deg
Mean motion:   14.12988268 rev/day
Decay rate:       1.24e-06 rev/day^2
Epoch rev:           29201
Checksum:              310

Satellite: MET-2/18
Catalog number: 19851
Epoch time:      94143.07013368
Element set:     291
Inclination:       82.5194 deg
RA of node:       163.9460 deg
Eccentricity:    0.0013346
Arg of perigee:   304.0434 deg
Mean anomaly:      55.9451 deg
Mean motion:   13.84365026 rev/day
Decay rate:        4.8e-07 rev/day^2
Epoch rev:           26421
Checksum:              294

Satellite: MET-3/3
Catalog number: 20305
Epoch time:      94145.83435935
Element set:      56
Inclination:       82.5502 deg
RA of node:       285.4311 deg
Eccentricity:    0.0006155
Arg of perigee:     2.9778 deg
Mean anomaly:     357.1381 deg
Mean motion:   13.04403482 rev/day
Decay rate:        4.4e-07 rev/day^2
Epoch rev:           21998
Checksum:              291

Satellite: MET-2/19
Catalog number: 20670
Epoch time:      94144.23310848
Element set:     796
Inclination:       82.5464 deg
RA of node:       227.4882 deg
Eccentricity:    0.0014940
Arg of perigee:   209.3110 deg
Mean anomaly:     150.7229 deg
Mean motion:   13.84188048 rev/day
Decay rate:        2.4e-07 rev/day^2
Epoch rev:           19730
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Checksum:              304

Satellite: FY-1/2
Catalog number: 20788
Epoch time:      94145.55435241
Element set:     977
Inclination:       98.8363 deg
RA of node:       166.4070 deg
Eccentricity:    0.0016564
Arg of perigee:    71.8115 deg
Mean anomaly:     288.4852 deg
Mean motion:   14.01342516 rev/day
Decay rate:       4.20e-06 rev/day^2
Epoch rev:           19053
Checksum:              307

Satellite: MET-2/20
Catalog number: 20826
Epoch time:      94144.51734142
Element set:     804
Inclination:       82.5263 deg
RA of node:       164.8146 deg
Eccentricity:    0.0014540
Arg of perigee:   108.8861 deg
Mean anomaly:     251.3875 deg
Mean motion:   13.83581698 rev/day
Decay rate:        5.5e-07 rev/day^2
Epoch rev:           18448
Checksum:              314

Satellite: MET-3/4
Catalog number: 21232
Epoch time:      94144.15367579
Element set:     702
Inclination:       82.5428 deg
RA of node:       186.5830 deg
Eccentricity:    0.0011566
Arg of perigee:   247.0250 deg
Mean anomaly:     112.9658 deg
Mean motion:   13.16462510 rev/day
Decay rate:        5.0e-07 rev/day^2
Epoch rev:           14819
Checksum:              290

Satellite: NOAA-12
Catalog number: 21263
Epoch time:      94145.54361794
Element set:      41
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Inclination:       98.6178 deg
RA of node:       173.8178 deg
Eccentricity:    0.0012251
Arg of perigee:   306.5962 deg
Mean anomaly:      53.4089 deg
Mean motion:   14.22408529 rev/day
Decay rate:       1.68e-06 rev/day^2
Epoch rev:           15731
Checksum:              308

Satellite: MET-3/5
Catalog number: 21655
Epoch time:      94144.04747976
Element set:     711
Inclination:       82.5512 deg
RA of node:       133.7949 deg
Eccentricity:    0.0011535
Arg of perigee:   261.0292 deg
Mean anomaly:      98.9519 deg
Mean motion:   13.16830410 rev/day
Decay rate:        5.1e-07 rev/day^2
Epoch rev:           13328
Checksum:              300

Satellite: MET-2/21
Catalog number: 22782
Epoch time:      94144.27606260
Element set:     304
Inclination:       82.5490 deg
RA of node:       225.3784 deg
Eccentricity:    0.0021246
Arg of perigee:   296.1592 deg
Mean anomaly:      63.7370 deg
Mean motion:   13.83007284 rev/day
Decay rate:        7.0e-07 rev/day^2
Epoch rev:            3678
Checksum:              296

/EX

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Date: 27 May 1994 09:08:20 -0400
From: ihnp4.ucsd.edu!usc!sol.ctr.columbia.edu!news.kei.com!hookup!
news2.sprintlink.net!news.sprintlink.net!rtp.vnet.net!char2.vnet.net!not-for-
mail@network.ucsd.edu
Subject: repeater slang/lingo.
To: info-hams@ucsd.edu
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John Albert (jwa@tellabs.com) wrote:
: In article <np2xCpx8n7.7oL@netcom.com>
 np2x@netcom.com (Phil Petersen) writes:
: >Need I go on....
: No, I'll do it for you!
: The thing that turns my crank is when someone identifies themself
: by giving their call and then they say "for I D ".
: Of course! that's what their doing isn't it?
: Why do they have to be redundant? I never heard this proceedure
: used in the 60's. ...
: ---
:   Jack Albert WA9FVP   Fellow Radio Hacker
:   Tele (708) 378-6201
:   Tellabs Operations, Inc.   FAX (708) 378-6721
:   1000 Remington Blvd.   jwa@tellabs.com
:   Bolingbrook, IL 60440

Jack,
     Up here in Ozaukee Co., WI we use the "straight" call to
break into a QSO or to indicate that we are making a final
transmission. To differentiate the times when we feel that
10 minutes hav (or will have) passed since the last ID we use
the phrase "for ID". I am sorry if this offends you.
     Don't you think - in the totality of Amateur Radio -
this is rather insignificant?

David W. Barrow III, exe02594@vnet.net
     N9UNR@WA9POV.#MKE.WI.USA.NA

Date: Fri, 27 May 1994 12:51:33 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!emory!cs.utk.edu!
stc06r.CTD.ORNL.GOV!ornl!ornl.gov!uid@network.ucsd.edu
Subject: seeking new club advice
To: info-hams@ucsd.edu

      i am seeking advice on starting a amateur radio club. last month a
group of us met and discussed forming a club here at work - so far, around 70
hams have shown an interest in participating.

      at the first meeting, the floor was open for suggestions of activities -
education/upgrading functions, having guest speakers, field day participation,
and contesting were a few activities suggested. does anyone on the internet
have any other suggestions for club activities?? is there any "lessons
learned" advice anyone can give to us?? any information provided would be
greatly appreciated.

thanks,
ke4edy

p.s. we also have an opportunity to purchase our own 2 meter repeater
station. any advice on this??

Date: 27 May 1994 13:11:31 GMT
From: ihnp4.ucsd.edu!usc!cs.utexas.edu!swrinde!gatech!newsxfer.itd.umich.edu!
newsrelay.iastate.edu!news.iastate.edu!kenman@network.ucsd.edu
Subject: Ticket arrived
To: info-hams@ucsd.edu

FYI: Upgraded on Feburary 26. Received Ticket May 26, effective date
May 17.

73's, (grin)

Ken

--
Ken Anderson   N0ZEM   Kenman@iastate.edu   PH: 515.294.8996
126 Soil Tilth Bldg., Iowa State University, Ames, Iowa 50011

Date: 27 May 94 19:14:55 GMT
From: sdd.hp.com!hpscit.sc.hp.com!cupnews0.cup.hp.com!jholly@hplabs.hpl.hp.com
Subject: Where to find info about ax.25 ???
To: info-hams@ucsd.edu

Sandland Oerjan (sandland@nki.no) wrote:

: Hi all !

: I need to find as much info as possible in the ax.25 protocol......
: rfc's faq's anything !

: thanks !

ARRL
225 Main St.

Newington, CT 06111

The manual is about $10.

Jim, WA6SDM

End of Info-Hams Digest V94 #584
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